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We Claim:

- 1. A device for removing cytokines or other species of pro-inflammatory or anti-inflammatory stimulators or mediators from the blood comprising a housing, and an adsorption medium in the housing sized to selectively adsorb cytokines or other species of pro-inflammatory or anti-inflammatory stimulators or mediators from the blood, the adsorption medium being characterized by a Biocompatibility Index of not greater than 14.
- 2. A device for removing cytokines or other species of pro-inflammatory or anti-inflammatory stimulators or mediators from a blood component product harvested from the blood drawn from an individual comprising a housing, and an adsorption medium in the housing sized to selectively adsorb cytokines or other species of pro-inflammatory or anti-inflammatory stimulators or mediators from the blood component product, the adsorption medium being characterized by a Biocompatibility Index of not greater than 14.
- 3. A device for removing cytokines or other species of pro-inflammatory or anti-inflammatory stimulators or mediators from a physiologic fluid drawn from an individual comprising a housing, and an adsorption medium in the housing sized to selectively adsorb cytokines or other species of pro-inflammatory or anti-inflammatory stimulators or mediators from the physiologic fluid, the adsorption medium being characterized by a Biocompatibility Index of not greater than 14.
- 4. A device according to claim 1 or 2 or 3 wherein the Biocompatibility Index is not greater than 7.
- 5. A system according to claim 1 or 2 or 3 wherein the adsorption medium comprises a polymeric material.
 - 6. A system according to claim 5 wherein the polymeric material comprises

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particles formed from a porous hydrophobic divinylbenzene copolymer having a surface modified to include surface exposed functional groups selected from the group of polymers of 2-hydroxyethyl methacrylate, N-vinylpyrrolidine, N-vinylcaprolactame and N-acrylamide.

- 7. A system for treating an individual experiencing septic shock comprising a flow path adapted to draw the blood from the circulatory system of the individual for return to the circulatory system including an adsorption medium sized to selectively adsorb cytokines or other species of pro-inflammatory or anti-inflammatory stimulators or mediators from the blood, the adsorption medium being characterized by a Biocompatibility Index of not greater than 14.
- 8. A system according to claim 7 wherein the Biocompatibility Index is not greater than 7.
- 9. A system according to claim 7 wherein the adsorption medium comprises a polymeric material.
- wherein the polymeric material comprises particles formed from a porous hydrophobic divinylbenzene copolymer having a surface modified to include surface exposed functional groups selected from the group of polymers of 2-hydroxyethyl methacrylate, N-vinylpyrrolidine, N-vinylcaprolactame and N-acrylamide.
- 11. A system according to claim 7
 wherein the flow path includes an intravenous catheter.
- 12. A system according to claim 7 wherein the flow path includes an indwelling catheter.
 - 13. A system according to claim 7 wherein the flow path includes tubing having a

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wall impregnated with the adsorption medium.

14. A system according to claim 7

wherein the flow path includes an in-line housing, and

wherein the adsorption medium is contained within the housing.

15. A system according to claim 7

wherein the flow path includes an in-line exchangeable housing, and

 $\label{eq:wherein} \mbox{ wherein the adsorption medium is contained within the housing.}$

16. A system for treating the blood of an individual comprising

means for drawing the blood from the circulatory system of the individual for return to the circulatory system, and

means for removing cytokines or other species of pro-inflammatory or anti-inflammatory stimulators or mediators from the blood by bringing the blood into contact with an adsorption medium sized to selectively adsorb cytokines from the blood, the adsorption medium being characterized by a Biocompatibility Index of not greater than 14.

- 17. A system according to claim 16 wherein the Biocompatibility Index is not greater than 7.
- 18. A system according to claim 16 wherein the adsorption medium comprises a polymeric material.
 - 19. A system according to claim 18

wherein the polymeric material comprises particles formed from a porous hydrophobic divinylbenzene copolymer having a surface modified to include surface exposed functional groups selected from the group of polymers of 2-hydroxyethyl methacrylate, N-vinylpyrrolidine,

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the housing.

N-vinylcaprolactame and N-acrylamide.

- 20. A system according to claim 16
 wherein the means for drawing the blood includes
 an intravenous catheter.
- 21. A system according to claim 16 wherein the means for drawing the blood includes an indwelling catheter.
- 22. A system according to claim 16
 wherein the means for drawing the blood includes
 tubing having a wall impregnated with the adsorption medium.
- 23. A system according to claim 16
 wherein the means for drawing the blood includes
 an in-line housing, and
 wherein the adsorption medium is contained within
- 24. A system according to claim 16 wherein the means for drawing the blood includes an in-line exchangeable housing, and
- wherein the adsorption medium is contained within the housing.
- 25. A method for treating the blood of an individual comprising the steps of

drawing the blood from the circulatory system of the individual for return to the circulatory system, and

removing cytokines or other species of proinflammatory or anti-inflammatory stimulators or mediators from the blood by bringing the blood into contact with an adsorption medium sized to selectively adsorb cytokines or other species of pro-inflammatory or anti-inflammatory stimulators or mediators from the blood, the adsorption medium being characterized by a Biocompatibility Index of not greater than 14.

26. A method according to claim 25 wherein the Biocompatibility Index is not greater than 7.

27. A method according to claim 25 wherein the adsorption medium comprises a polymeric material.

28. A method according to claim 27

wherein the polymeric material comprises particles formed from a porous hydrophobic divinylbenzene copolymer having a surface modified to include surface exposed functional groups selected from the group of polymers of 2-hydroxyethyl methacrylate, N-vinylpyrrolidine, N-vinylcaprolactame and N-acrylamide.

29. A method for treating an individual experiencing a condition on a continuum from early sepsis to septic shock comprising the steps of

drawing the blood from the circulatory system of the individual for return to the circulatory system, and

removing cytokines or other species of proinflammatory or anti-inflammatory stimulators or mediators from the blood by bringing the blood into contact with an adsorption medium sized to selectively adsorb cytokines or other species of pro-inflammatory or anti-inflammatory stimulators or mediators from the blood, the adsorption medium being characterized by a Biocompatibility Index of not greater than 14.

30. A method according to claim 29 wherein the Biocompatibility Index is not greater than 7.

31. A system according to claim 29

wherein the adsorption medium comprises a polymeric material.

32. A system according to claim 31

wherein the polymeric material comprises particles formed from a porous hydrophobic divinylbenzene copolymer having a surface modified to include surface exposed functional groups selected from the group of polymers of 2-hydroxyethyl methacrylate, N-vinylpyrrolidine,

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N-vinylcaprolactame and N-acrylamide.